

**ROUTING SCHEME FOR DIFFERENTIAL PAIRS IN FLIP CHIP
SUBSTRATES**

ABSTRACT OF THE DISCLOSURE

A flip chip substrate is provided, which
5 includes a plurality of conductive layers, including
a top layer and a bottom layer. A first plurality of
contacts, including first and second contacts
corresponding to a differential signal pair, are
arranged on the top layer within a die bonding area.
10 A second plurality of contacts, including third and
fourth contacts corresponding to the differential
signal pair, are arranged on the bottom layer. First
and second traces are routed between the first and
third contacts and between the second and fourth
15 contacts, respectively, wherein the second trace is
routed out of the die bonding area on a different
layer than the first trace. The traces are routed in
a manner that reduces the length difference between
the traces.